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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/517,917	· 12/14/2004	Hubert Cecile François Martens	NL 020573	8862
24737 7590 11/27/2007 PHILIPS INTELLECTUAL PROPERTY & STANDARDS P.O. BOX 3001			EXAMINER	
			HEYI, HENOK G	
BRIARCLIFF MANOR, NY 10510		ART UNIT	PAPER NUMBER	
			2627	
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			11/27/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

and the state of t	Application No.	Applicant(s)			
	10/517,917	MARTENS ET AL.			
Office Action Summary	Examiner	Art Unit			
· · · · · · · · · · · · · · · · · · ·	Henok G. Heyi	2627			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUN 136(a). In no event, however, may a d will apply and will expire SIX (6) MO te, cause the application to become A	CATION. reply be timely filed NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).			
Status		•			
1) Responsive to communication(s) filed on 25 (2a) This action is FINAL. 2b) This 3) Since this application is in condition for allowed closed in accordance with the practice under	s action is non-final. ance except for formal ma	•			
Disposition of Claims					
4) ⊠ Claim(s) 1-11 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-11 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or	awn from consideration.				
Application Papers					
9) The specification is objected to by the Examin 10) The drawing(s) filed on is/are: a) acceptance and applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examin	cepted or b) objected to e drawing(s) be held in abeya ction is required if the drawin	nce. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
		*			
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of References Cited (PTO-892)		Summary (PTO-413) (s)/Mail Date			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date		Informal Patent Application			

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DETAILED ACTION

Response to Amendment

Response to Argument

Applicant's sole argument is that a recordable medium comprising a dye recording layer is essentially different from a rewritable medium comprising phase change recording layers and the reference used to reject applicant's claim doesn't teach a recording layer comprising a dye. Examiner agrees on the premise that recording medium comprising a dye recording layer is different from a rewritable medium comprising phase change recording layer. However, the Nishiuchi reference used in the prior office action teaches three different methods including dye recording layer and phase change recording that could be employed to form the recording layer. Please see col 14 lines 37-67.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-11 are rejected under 35 U.S.C. 102(b) as being anticipated by Nishiuchi et al 5,764,619 (Nishiuchi hereinafter).

Regarding claim 1, Nishiuchi teaches a multi-stack optical data storage medium (recording medium according to this embodiment has two information layers, col 13

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line52) for recording and reading using a focused radiation beam entering through an entrance face of the medium during recording and reading (recording and reproducing, col 13 line 60), comprising: a first substrate having, on a side thereof: a first recording stack L0, comprising a recordable type L0 recording layer comprising a dye (organic coloring matter, a leuco dye, such as triphenylmethane or the like may be employed, col 14 lines 64-66), and formed in a first L0 guide groove, and a first reflective layer present between the L0 recording layer and the first substrate (guide grooves formed on a first substrate formed a first information layer formed by a thin film, col 11 line 7+), a second substrate having, on a side thereof: a second recording stack L1 comprising a recordable type L1 recording layer, said second recording stack being at a position closer to the entrance face than the Lo recording stack and formed in a second L1 guide groove (guide grooves formed on a second substrate formed a second information layer formed by a thin film, col 11 line 18+); and a transparent spacer layer sandwiched between the first and second recording stacks (there is formed a transparent separation layer between the first information layer and the second information layer, col 11 line 24+), said transparent spacer layer having a thickness substantially larger than the depth of focus of the focused radiation beam (the thickness of the separation layer be set to a value larger than twice the focal depth, col 16 line 6-12), characterized in that the first Lo guide groove has a depth GL0 <100nm (the pit depth is 90nm, col 46 line12). Regarding claim 2, Nishiuchi teaches the multi-stack optical data storage medium as claimed in claim 1, wherein GL0 < 80 nm (the depth of the groove is 50nm which is less

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than 80nm, col 47 line 45) and the first L0 guide groove has a full half maximum width WL0 < 350nm (the pit width is 0.3µm which is equivalent to 300nm, col 20 line 60). Regarding claim 3, Nishiuchi teaches the multi-stack optical data storage medium as claimed in claim 1, wherein 25nm < GL0 < 40nm and the first reflective layer comprises a metal and has a thickness > 50 nm (a metal formed into a thin reflective film having thickness of 40nm to 200nm, col 14 line 34).

Regarding claim 4, Nishiuchi teaches the multi-stack optical data storage medium as claimed in claim 1, wherein the recordable type L0 recording layer has a thickness between 70nm and 150nm measured on the land portion of the guide groove (Having a thickness of 90nm).

Regarding claim 5, Nishiuchi teaches the multi-stack optical data storage medium as claimed in claim 1, wherein said multi-stack optical data storage medium further comprises a dielectric layer present at a side of the Lo recording layer opposite from the side where the first reflective layer is present (the double layer structure may be a structure including a dielectric material layer/a recording layer, a structure including a recording layer/a reflecting layer or a structure including a reflecting layer/a recording layer in the forgoing sequential order, col 15 line 18-24).

Regarding claim 6, Nishiuchi teaches the multi-stack optical data storage medium as claimed in claim 5, wherein the dielectric layer has a thickness in the range of 5nm – 120nm (a dielectric layer having a thickness of 30nm, col 46 line17).

Regarding claim 7, Nishiuchi teaches the multi-stack optical data storage medium as claimed in claim 1, wherein said multi-stack optical data storage medium further

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comprises a second reflective layer comprising a metal is present at a side of the L0 recording layer opposite from the side where the first reflective layer present (a structure including a first reflecting layer/a dielectric material layer/a recording layer/a dielectric material layer/a reflecting layer when viewed from the substrate, col 15 line 32-35). Regarding claim 8, Nishiuchi teaches the multi-stack optical data storage medium as claimed in claim 7, wherein the second reflective layer has a thickness in the range of 5nm - 15nm (a semitransparent reflecting layer having a thickness of 14nm, col 46 line33).

Regarding claim 9, Nishiuchi teaches the multi-stack optical data storage medium as claimed in claim 7, wherein the second reflective layer mainly comprises a metal selected from the group of Ag, Au, Cu, A1 (the thin film reflective layer is made of a material selected from a group consisting of metal, such as Au, Al, Cu or their alloys, col 13 line 62-67).

Regarding claim 10. Nishiuchi teaches the multi-stack optical data storage medium as claimed in claim 1, wherein the effective reflection level of the stacks is at least 0.18 at a radiation beam wavelength of approximately 655 nm (reflectance of the information layer at a wavelength of 680nm is 17%, col 45 line 22 also look at col 18 line 1-8). Regarding claim 11, Nishiuchi teaches use of an optical data storage medium as claimed in claim 1 for multi stack recording with a reflectivity level of the first recording stack L0 as such of at least 0.5 (having reflectance of 90% which is equivalent to 0.9 and definitely above 0.5) and modulation of recorded marks in the L0 recording layer of

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at least 0.6 at a radiation beam wavelength of approximately 655 nm (a wavelength of 680 having a numerical aperture modulated mark of 0.6, col 42 line 20-25).

Conclusion

3. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Contact

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Henok G. Heyi whose telephone number is (571) 272-1816. The examiner can normally be reached on Monday to Friday 7:30 to 5:00 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vu Le can be reached on (571) 272-7332. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

HGH Patent Examiner 11/20/2007